

IN THE CLAIMS:

1. (presently amended) A method for manufacturing an electronic circuit arrangement in a motor vehicle fuel tank comprising the steps of: by arranging one or more electronic modules on a substrate, and fixating said substrate with respect to a fuel tank wall,

and connecting said method being characterized by encapsulating said one or more electronic modules against said fuel by a cap that connects to said substrate so as to form whilst forming an encapsulated space that comprises said one or more electronic modules and is separated from any fuel or vapour outside said encapsulated space.

2. (presently amended) A method as claimed in Claim 1, wherein being characterized in that said cap is connected connects to said substrate by soldering.

3. (presently amended) An electronic circuit arrangement for measuring a fuel level in a motor vehicle fuel tank, comprising one or more electronic modules that are arranged on a substrate, wherein said which substrate is suitable for fixating with respect to a fuel tank wall, and further said arrangement being characterized by comprising said one or more electronic modules protected against said fuel by an encapsulating cap connected that connects to said substrate and whilst forming an encapsulated space that comprises said one or more electronic modules and that is separated from any fuel or vapour outside said encapsulated space.

4. (presently amended) An electronic circuit arrangement as claimed in Claim 3, wherein being characterized in that said cap is connected connects to said substrate by soldering.

5. (presently amended) An electronic circuit arrangement as claimed in Claim 3, wherein being characterized in that said substrate is a ceramic substrate.

6. (presently amended) An electronic circuit arrangement as claimed in Claim 3, wherein being characterized in that said one or more electronic modules comprise a magnetically driven circuit or an ultrasound driven circuit for effecting said measuring.

7. (presently amended) A motor vehicle fuel tank comprising an electronic circuit arrangement as claimed in claim 3, said electronic circuit arrangement for measuring a fuel level in said motor vehicle fuel tank, said electronic circuit arrangement further comprising one or more electronic modules that are arranged on a substrate, wherein said substrate is suitable for fixating with respect to a fuel tank wall, and further comprising an encapsulating cap connected to said substrate and forming an encapsulating space that contains said one or more electronic modules and that is separated from any fuel or vapour outside said encapsulated space.

8. (presently amended) A motor vehicle fuel tank as claimed in Claim 7, wherein being characterized in that said substrate comprises one or more electrical through-connections to an outside of said fuel tank.

9. (presently amended) A motor vehicle comprising a fuel tank as claimed in Claim 7, said fuel tank further comprising an electronic circuit arrangement for measuring a fuel level in said fuel tank, said electronic circuit arrangement further comprising one or more electronic modules that are arranged on a substrate, wherein said substrate is suitable for fixating with respect to a fuel tank wall, and further comprising an encapsulating cap connected to said substrate and forming an encapsulating space that contains said one or more electronic modules and that is separated from any fuel or vapour outside said encapsulated space.

10. (new) A motor vehicle fuel tank as claimed in Claim 7, wherein said cap is connected to said substrate by soldering.

11. (new) A motor vehicle fuel tank as claimed in Claim 7, wherein said substrate is a ceramic substrate.

12. (new) A motor vehicle fuel tank as claimed in Claim 7, wherein said one or more electronic modules comprise a magnetically driven circuit or an ultrasound driven circuit for effecting said measuring.

13. (new) A motor vehicle as claimed in Claim 9, wherein said cap is connected to said substrate by soldering.

14. (new) A motor vehicle as claimed in Claim 9, wherein said substrate is a ceramic substrate.

15. (new) A motor vehicle as claimed in Claim 9, wherein said one or more electronic modules comprise a magnetically driven circuit or an ultrasound driven circuit for effecting said measuring.